

Title (en)

TECHNIQUES FOR EXPOSING MAXIMUM NODE AND/OR LINK SEGMENT IDENTIFIER DEPTH UTILIZING OSPF

Title (de)

TECHNIKEN UM DIE MAXIMALE KNOTEN UND/ODER LINK SEGMENT IDENTIFIER TIEFE MITTELS OSPF ZUR VERFÜGUNG ZU STELLEN

Title (fr)

TECHNIQUES DE FOURNITURE DE LA LINK SEGMENT IDENTIFIER DEPTH D'UN NOEUD ET / OU LIEN EN UTILISANT OSPF

Publication

**EP 3417579 B1 20201230 (EN)**

Application

**EP 16715113 A 20160401**

Priority

- US 201662295453 P 20160215
- IB 2016051891 W 20160401

Abstract (en)

[origin: WO2017141080A1] Techniques for exposing maximum node and/or link segment identifier depth using OSPF are described. A network element in a Segment Routing (SR) network transmits a Type Length Value (TLV) element including a Maximum Segment Identifier Depth (MSD) value utilizing OSPF. The MSD value identifies a maximum number of segment identifier (SID) labels that the network element is able to push into packet headers of received packets to enable forwarding of the received packets through the SR network. The network element receives, from a controller, data for a path to be utilized by the network element for forwarding the received packets through the SR network. The data includes one or more SID labels to be pushed into the received packets, and the SID labels have fewer than or equal to the MSD value. The controller and the network element do not utilize Path Computation Element Protocol (PCEP) over a southbound interface.

IPC 8 full level

**H04L 45/42** (2022.01); **H04L 45/50** (2022.01); **H04L 45/74** (2022.01)

CPC (source: EP US)

**H04L 45/12** (2013.01 - US); **H04L 45/34** (2013.01 - EP); **H04L 45/42** (2013.01 - US); **H04L 45/74** (2013.01 - US); **H04L 45/12** (2013.01 - EP); **H04L 45/42** (2013.01 - EP); **H04L 45/50** (2013.01 - EP)

Citation (examination)

US 2015103844 A1 20150416 - ZHAO QIANGLIN QUINTIN [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2017141080 A1 20170824**; EP 3417579 A1 20181226; EP 3417579 B1 20201230; JP 2019505140 A 20190221; JP 6967521 B2 20211117; RU 2704714 C1 20191030; US 11038791 B2 20210615; US 2021092044 A1 20210325

DOCDB simple family (application)

**IB 2016051891 W 20160401**; EP 16715113 A 20160401; JP 2018542726 A 20160401; RU 2018132728 A 20160401; US 201616077853 A 20160401